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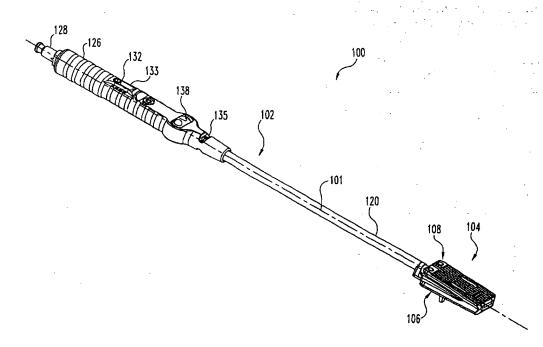
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[Continued on next page]

(54) Title: INSTRUMENTATION AND METHODS FOR PREPARATION OF AN INTERVERTEBRAL SPACE



(57) Abstract: An instrument (100) for separating adjacent vertebrae includes a handle assembly (102) and a distal portion (104) at a distal end of the handle assembly. The distal portion includes first and second members (106, 108) movable from an unexpanded configuration for insertion in the disc space toward an expanded configuration to separate the vertebrae. A cutting member of a cutting instrument (300, 400, 500) can be guided by the instrument to prepare the vertebrae for engagement with an implant.

WO 2003/092507 A3



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61B17/02 A61B17/16 A61B17/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC\ 7\ A61B\ A61F$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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Ý	column 12, line 57 -column 14, line 42 figures 19-23	55-62
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Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.				
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family				
Oate of the actual completion of the international search 4 March 2004	Date of mailing of the international search report 1 9. 03. 2004				
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Buchmann, G				

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INTERNATIONAL SEARCH REPORT

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International Application No PCT/US 03/14170

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ternational application No. PCT/US 03/14170

Box	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	emational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report Is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-38, 67-71

An instrument for separating adjacent vertebrae, comprising first and second members being movable with respect to each other; a handle assembly; and an actuating member between the first and second member, being movable between two positions wherein the first and second members include an expanded/unespanded configuration.

2. Claims: 39-48

An instrument for separating adjacent vertebrae, comprising first and second members being movable with respect to each other; a handle assembly; the handle assembly including a stop member being adjustable in the direction of the longitudinal axis of the handle, for limiting the insertion depth of the first and second members.

3. Claims: 49-54

An instrument for separating adjacent vertebrae, comprising first and second members being movable with respect to each other; a handle assembly; wherein a plurality of second members is provided which can be removably coupled with the first member, and the outer surface of the different second members form different angles with the outer surface of the first member.

4. Claims: 55-62

An instrument for separating adjacent vertebrae, comprising first and second members being movable with respect to each other; a handle assembly; and a cutting instrument movable along the first and/or second member.

5. Claims: 63-66

A cutting instrument for a vertebral body, comprising a handle, a shaft and a central keel blade.

6. Claims: 72-75

An instrument for separating adjacent vertebrae, comprising first and second members having different lateral widths and being movable with respect to each other; a handle assembly; and an actuating member between the first and second member.

FURTHER INFOR	RMATION CONTINUED FROM	PCT/ISA/ 210	·	
	being movable between second members include	two positions e an expanded/	wherein the first unespanded configu	and ration.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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